

## INTERNATIONAL SEARCH REPORT

Inter national Application No

PCT/DE 00/00913

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G02B5/08 G02B5/28 G02B1/10 H01K1/32 B32B17/06  
 B32B27/06 B29D11/00 B29C51/14 B29C55/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G02B H01K B29D B29C B32B C03C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, IBM-TDB

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 232 498 A (MARCONI GEC LTD) 12 December 1990 (1990-12-12)	1,2,4-7, 9,18,20, 23
Y	page 2, line 20 -page 5, line 5	13-15
A	abstract; figures 1,2	16,17
X	US 4 975 103 A (ACKERMANN ULRICH ET AL) 4 December 1990 (1990-12-04)	1-3,5-7, 9,16-24
Y	column 2, line 20 -column 4, line 19 abstract; examples 1,2	13-15
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

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Date of the actual completion of the international search

31 July 2000

Date of mailing of the international search report

07/08/2000

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 94 10589 A (DOW CHEMICAL CO) 11 May 1994 (1994-05-11)	1,2, 4-11,18, 20-24 13-15
Y	page 7, line 19 - line 27 page 8, line 17 - line 23 page 9, line 24 - line 34 page 10, line 20 -page 11, line 25 page 14, line 4 - line 22 page 18, line 37 -page 21, line 20 abstract; figure 1	
X	US 4 937 134 A (SCHRENK WALTER J ET AL) 26 June 1990 (1990-06-26)	1,2,4-7, 9,10,18, 20,23 13-15
Y	column 3, line 21 -column 4, line 13 column 5, line 12 - line 49 column 6, line 24 - line 49 abstract; examples 1-3	
X	US 3 711 176 A (SCHRENK W ET AL) 16 January 1973 (1973-01-16)	1,2,4-9, 18,19,23 13-15
Y	column 2, line 27 -column 4, line 4 abstract	
Y	DE 20 50 650 A (BALZERS HOCHVAKUUM GMBH) 24 June 1971 (1971-06-24)	13
A	page 4, line 1 - line 5	1,10
Y	US 5 697 192 A (INOUE YUJI) 16 December 1997 (1997-12-16) column 11, line 31 - line 41	14,15
A	US 4 430 288 A (BONIS LASZLO J) 7 February 1984 (1984-02-07) column 2, line 42 - line 52 abstract; figures 2,3	1,2,4, 16,19
A	US 4 735 669 A (GUIDA JAMES H ET AL) 5 April 1988 (1988-04-05) column 2, line 12 -column 3, line 24 abstract; figures 1-5	1,2,4,9, 17,19,20

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/DE 00/00913

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 2232498	A	12-12-1990	NONE	
US 4975103	A	04-12-1990	DE 3830364 C JP 2111638 A JP 2592528 B	18-01-1990 24-04-1990 19-03-1997
WO 9410589	A	11-05-1994	AU 5322594 A CA 2148115 A CN 1088511 A DE 69325283 D DE 69325283 T EP 0666993 A JP 8503312 T MX 9306733 A US 5448404 A US 5568316 A US 5684633 A	24-05-1994 11-05-1994 29-06-1994 15-07-1999 04-11-1999 16-08-1995 09-04-1996 29-04-1994 05-09-1995 22-10-1996 04-11-1997
US 4937134	A	26-06-1990	NONE	
US 3711176	A	16-01-1973	NONE	
DE 2050650	A	24-06-1971	CH 502603 A FR 2070892 A GB 1311127 A NL 7002011 A US 3697153 A	31-01-1971 17-09-1971 21-03-1973 21-06-1971 10-10-1972
US 5697192	A	16-12-1997	US 5583057 A AU 664141 B AU 6307194 A EP 0625802 A JP 2651121 B JP 7131048 A US 5480494 A	10-12-1996 02-11-1995 01-12-1994 23-11-1994 10-09-1997 19-05-1995 02-01-1996
US 4430288	A	07-02-1984	NONE	
US 4735669	A	05-04-1988	NONE	